

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 May 2004 (06.05.2004)

PCT

(10) International Publication Number  
**WO 2004/037800 A1**

(51) International Patent Classification<sup>7</sup>: **C07D 295/18**,  
A61K 31/496, A61P 25/00, C07D 295/22, 243/08, 213/74,  
239/42, 239/46, 237/20, 215/46, 277/82, 241/08, 213/85,  
487/08, 401/04, 307/14, 241/20, 285/12, 307/68, 333/38,  
241/44, 285/14, 261/18, 231/14, 307/24, 309/08, 307/85,  
211/52, 207/14, 498/10, 471/10, 221/20, 211/96, 209/08,  
209/44

Daniel [GB/GB]; GlaxoSmithKline, New Frontiers Sci-  
ence Park South, Third Avenue, Harlow, Essex CM19  
5AW (GB). **ORLEK, Barry, Sidney** [GB/GB]; Glax-  
oSmithKline, New Frontiers Science Park South, Third  
Avenue, Harlow, Essex CM19 5AW (GB).

(21) International Application Number:  
PCT/EP2003/011649

(74) Agent: **VALENTINE, Jill, Barbara**; GlaxoSmithKline,  
CN925.1, 980 Great West Road, Brentford, Middlesex  
TW8 9GS (GB).

(22) International Filing Date: 20 October 2003 (20.10.2003)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,  
GH, GM, GR, GU, ID, IL, IN, IS, JP, KE, KG, KP, KR,  
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,  
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,  
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,  
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0224558.7 22 October 2002 (22.10.2002) GB  
0224677.5 23 October 2002 (23.10.2002) GB  
0224678.3 23 October 2002 (23.10.2002) GB  
0224679.1 23 October 2002 (23.10.2002) GB  
0224783.1 24 October 2002 (24.10.2002) GB  
0303467.5 14 February 2003 (14.02.2003) GB

(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **GLAXO  
GROUP LIMITED** [GB/GB]; Glaxo Wellcome House,  
Berkeley Avenue, Greenford, Middlesex UB6 0NN (GB).

**Published:**

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **BEST, Desmond,  
John** [GB/GB]; GlaxoSmithKline, New Frontiers Science  
Park South, Third Avenue, Harlow, Essex CM19 5AW  
(GB). **BRUTON, Gordon** [GB/GB]; GlaxoSmithKline,  
New Frontiers Science Park South, Third Avenue, Harlow,  
Essex CM19 5AW (GB). **HEIGHTMAN, Thomas,**

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

WO 2004/037800 A1

(54) Title: **ARYLOXYALKYLAMINE DERIVATES AS H<sub>3</sub> RECEPTOR LIGANDS**

(57) Abstract: The present invention relates to novel benzyloxy derivatives having pharmacological activity, processes for their preparation, to compositions containing them and to their use in the treatment of neurological and psychiatric disorders.